TRAINING SYSTEM

CAPRAD

COMPUTER ASSISTED PRE-COORDINATION
RESOURCE AND DATABASE SYSTEM

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System

Overview

Virginia Interoperable Communications Conference

Virginia Beach, VA

October 5, 2005

The Need for INFORMATION

The Pre-coordination database for 700 MHz frequencies was built for Regional Planning Committees at the request of:

The PSCC (Public Safety Communications Council) Coordinators
- AASHTO (American Association of State Highway and Transportation Officials)
- APCO (Association of Public-Safety Communications Officials-International, Inc.)
- FCCA (Forestry Conservation Communications Association)
- IMSA (International Municipal Signal Association)

NPSTC (National Public Safety Telecommunications Council)

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The Need for INFORMATION

Expansion and Enhancement of the database has occurred at the request of:

- The Regional Planning Committees
- Statewide Interoperability Planning Committees
- Users from across the country

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Who has access to the database?

- Regional Planning Committees
- The PSCC (Public Safety Communications Council) Coordinators
  - AASHTO (American Association of State Highway and Transportation Officials)
  - APCO (Association of Public-Safety Communications Officials-International, Inc.)
  - FCCA (Forestry Conservation Communications Association)
  - IMSA (International Municipal Signal Association)
- Statewide Interoperability Executive Committees (SIEC)
- Applicants / Proxy
- Authorized special users
- Public [view only in 700 MHz planning module]

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How is the database used?

- **Frequency Pre-allotment** (700MHz; 4.9 GHz; Interoperability channels)
  - National plan for proposed spectrum pre-allotment (700 MHz)
  - Modification options based on specific regional needs
- **Development of State or Regional Plans**
  - Assist in selection of "usable" frequencies
  - Resources for planning and managing the public safety spectrum
  - Accessible "living matrix" of planned channel use
  - Storage of Regional Planning documents
  - Mapping of planned usage and licensed sites
- **Application for Frequency Use**
  - FCC 601 forms
  - Attachments library
- **Communications Assets Inventory**
  - Inventory management / tracking
  - Attachments library

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What capabilities and features are included?

- **Web Site Access**
  - Informational front page
  - Secure Access for Registered Users
  - Defined User Privileges

- **Interactive Relational Databases**

- **Frequency Availability "Notebook"**

- **Interface to PSCC Automated Systems (via ftp)**
  - Electronic Batch Format (EBF) protocol for data transfer
  - Nightly Data Comparison and Update

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What capabilities and features are included?
(continued)

- **On-Line Help Facilities**
  - On-line users manual, context sensitive help, "frequently asked questions", planning resource documents/templates

- **Supplemental Information Storage**
  - Regional / State Frequency Plans
  - Lists of Television Channels with Potential Impact
  - Final FCC Report and Order Frequency Table
  - RPC Chairpersons and Other Contacts
  - RPC Frequency Limitations by Region and Adjacent Region

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ELCOME TO PUBLIC SAFETY SPECTRUM MANAGEMENT

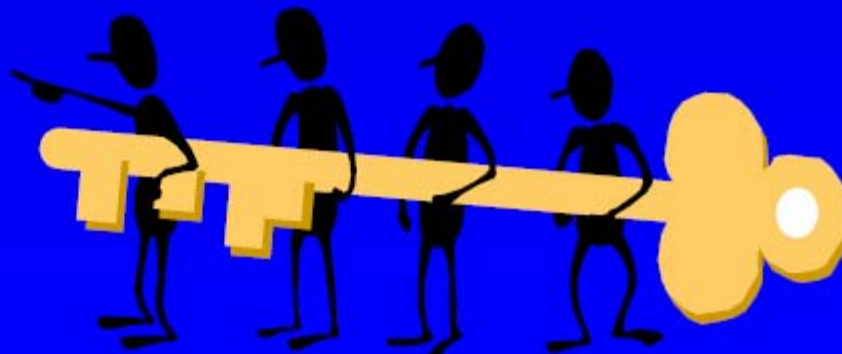Home / 700 Mhz / 4.9 GHz / SIEC / Ass

System Features

- Graphical User Interface
- Standard and ad hoc report capabilities
  - System Usage
  - Other Reports
- 24x7 operation
  - UPS
  - Mirrored Operation
  - Failsafe transfer to backup system
- Automated System and Data Backup
- Multi-Level Security

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CAPRAD *IS*:

- A tool to facilitate regional planning.

- An instrument to support inter-regional communications.

- A means to enhance inter-regional cooperation.

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CAPRAD *IS NOT*:

- A replacement for careful regional planning.
- A substitute for inter-regional communications.
- A substitute for inter-regional cooperation.
- Magic
  - it can only do what it is told to do with the information you give it.
- Self Maintaining
  - The Regional Planning Committee is the PRIMARY data manager and user.
  - YOU must ensure data is updated and correct.

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Home   700 Mhz   4.9 GHz   SIEC   Assets

RESOURCE LINKS

- AASHTO
- APCO
- FCC
- FCCA
- IMSA
- NIJ CommTech
- NLECTC
- NPSTC
- SAFECOM

PUBLIC INFORMATION

- Notices
- Documents
- Spectrum
- Regional Plans

700 MHz Frequency Database System

The FCC has allocated 24 MHz of spectrum for public safety services at 764-776 MHz and 794-806 MHz (referred to as the 700 MHz band). On August 6, 1998, the FCC adopted a First Report and Order and Third Notice of Proposed Rule Making that established a band plan and service rules for this spectrum. That plan was later modified three times with the current Fourth Memorandum Opinion and Order serving as the basis for current spectrum use and rules. The following table breaks out how the spectrum is planned on being allocated.

4.9 GHz Frequency Database System

The telecommunications industry is on the verge of an exciting development in regards to providing classic digital services in the mobile environment. The changes will provide a list of services, applications, and features that will greatly impact the manner in which public safety is able to provide services. The potential of convergence of classic digital services will provide an opportunity previously unprecedented for public safety.

SIEC Database System

Public safety officials throughout the nation are able to communicate using interoperable technology in real time and on demand.

For purposes of the SIEC vision the following terms are defined as: Real time: There should be no noticeable delay between the time information is sent and when it is received. On demand: Immediately available when mission requires. Must be available under any circumstances.

WELCOME
LOGIN HERE

GO

TRAINING
LOGIN HERE

GO

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00 MHz Public Safety Spectrum

PLANNING | APPLICATIONS

700 MHz Frequency Database System

The FCC has allocated 24 MHz of spectrum for public safety services at 764-776 MHz and 794-806 MHz (referred to as the 700 MHz band). On August 6, 1998, the FCC adopted a First Report and Order and Third Notice of Proposed Rule Making that established a band plan and service rules for this spectrum. That plan was later modified three times with the current Fourth Memorandum Opinion and Order serving as the basis for current spectrum use and rules. The following table breaks out how the spectrum is planned on being allocated.

Designated Purpose	Amount of Spectrum	Narrowband (6.25 kHZ)	WideBand (50kHZ)
General Use	12.5 MHz (52.1%)	7.7 MHz (1232 Channels)	4.8 MHz (96 Channels)
Interoperability	2.6 MHz (10.8%)	0.8 MHz (128 Channels)	1.8 MHz (36 Channels)
Secondary Trunking	0.2 MHz (0.8%)	0.2 MHz (32 Channels)	-0-
State License	2.4 MHz (10.0%)	2.4 MHz (384 Channels)	-0-
Low Power	0.3 MHz (1.3%)	0.3 MHz (48 Channels)	-0-
Reserve	6.0 MHz (25.0%)	0.6 MHz (96 Channels)	5.4 MHz (108 Channels)
Total	**24 MHz (100%)**	**12 MHz (1920 Channels)**	**12 MHz (240 Channels)**

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RESOURCE AND DATABASE SYSTEM

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4.9 GHz Public Safety Spectrum

PLANNING

RESOURCE LINKS

- AASHTO
- APCO
- FCC
- FCCA
- IMSA
- NIJ CommTech
- NLECTC
- NPSTC
- SAFECOM

SITES OF INTEREST
GHz Spectrum Whitepaper

NPSTC 4.9 GHz National
Regional Plan Guidlines

4.9 Licensing Rules
Summary

NPSTC Comments
to 4.9 GHz

4.9 GHz Frequency Database System

The telecommunications industry is on the verge of an exciting development in regards to providing classic digital services in the mobile environment. The changes will provide a list of services, applications, and features that will greatly impact the manner in which public safety is able to provide services. The potential of convergence of classic digital services will provide an opportunity previously unprecedented for public safety.

The FCC has allocated a significant amount of spectrum at 4.9 MHz for just this type of implementation. There are public safety groups working closely with the manufacturing community, federal interests, and standards bodies to create a "tweaked" 802.11 series standard that includes all of the functionality of Wi-Fi, but operating at a frequency that is exclusive to public safety.

The potentials are enormous. Public safety technology usually takes a back seat to the exploding commercial market in the wireless world. This translates to significant cost to public safety because public safety can not provide a market nearly as large as the commercial market. In this case, public safety can take advantage of the development in the commercial market and with very little alteration, make it work in our own field.

For those of us in the public safety environment, all of those high tech applications you have heard of and perhaps wished for and have actually seen in the commercial world, may now be within grasp. Not only technically, but also financially.

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Statewide   Interoperability   Spectrum

Home / 700 Mhz / 4.9 GHz / SIEC / Assets

PLANNING   APPLICATIONS

RESOURCE LINKS

⩗ AASHTO

⩗ APCO

⩗ FCC

⩗ FCCA

⩗ IMSA

⩗ NIJ CommTech

⩗ NLECTC

⩗ NPSTC

⩗ SAFECOM

SITES OF INTEREST
SIEC Home

Inventory Report

Phase I

rim Statewide Public Safety
mmunication Systems Plan

Focusing on Emergency
Communication Systems
Interoperability

SIEC Database System

Public safety officials throughout the nation are able to communicate using interoperable technology in real time and on demand.

For purposes of the SIEC vision the following terms are defined as:
Real time: There should be no noticeable delay between the time information is sent and when it is received.
On demand: Immediately available when mission requires. Must be available under any circumstances.

Mission Statement

In the interests of public safety, the State Interoperability Executive Committee (SIEC) pursues and promotes statewide interoperability policies and standards, which will ensure interoperable emergency communications.

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ommunications Assets Management   Home / 700 Mhz / 4.9 GHz / SIEC / **Assets**

Assets Management Database System

Public agencies are under ever-increasing pressure to provide more infrastructure for growing populations while dealing with tighter and tighter budgets. To do both successfully requires:

- An accurate, easily understood picture of the assets needed
- Design and construction costs
- Current condition and maintenance schedules
- Repair or replacement expenses

Mission Statement
To build a reliable assets image in order to realize the greatest return on investment of public funds, you need a solid foundation of precisely gathered and intelligently analyzed data.

RESOURCE LINKS

⬊ AASHTO

⬊ APCO

⬊ FCC

⬊ FCCA

⬊ IMSA

⬊ NIJ CommTech

⬊ NLECTC

⬊ NPSTC

⬊ SAFECOM

SITES OF INTEREST

HS: Information Analysis &
Infrastructure Protection

Executive Order: Asset
Management

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00 MHz Public Safety Spectrum

Home   700 Mhz   4.9 GHz   SIEC   Assets

SELECT REGION: Select Region ▾   or Click Map to Select Region
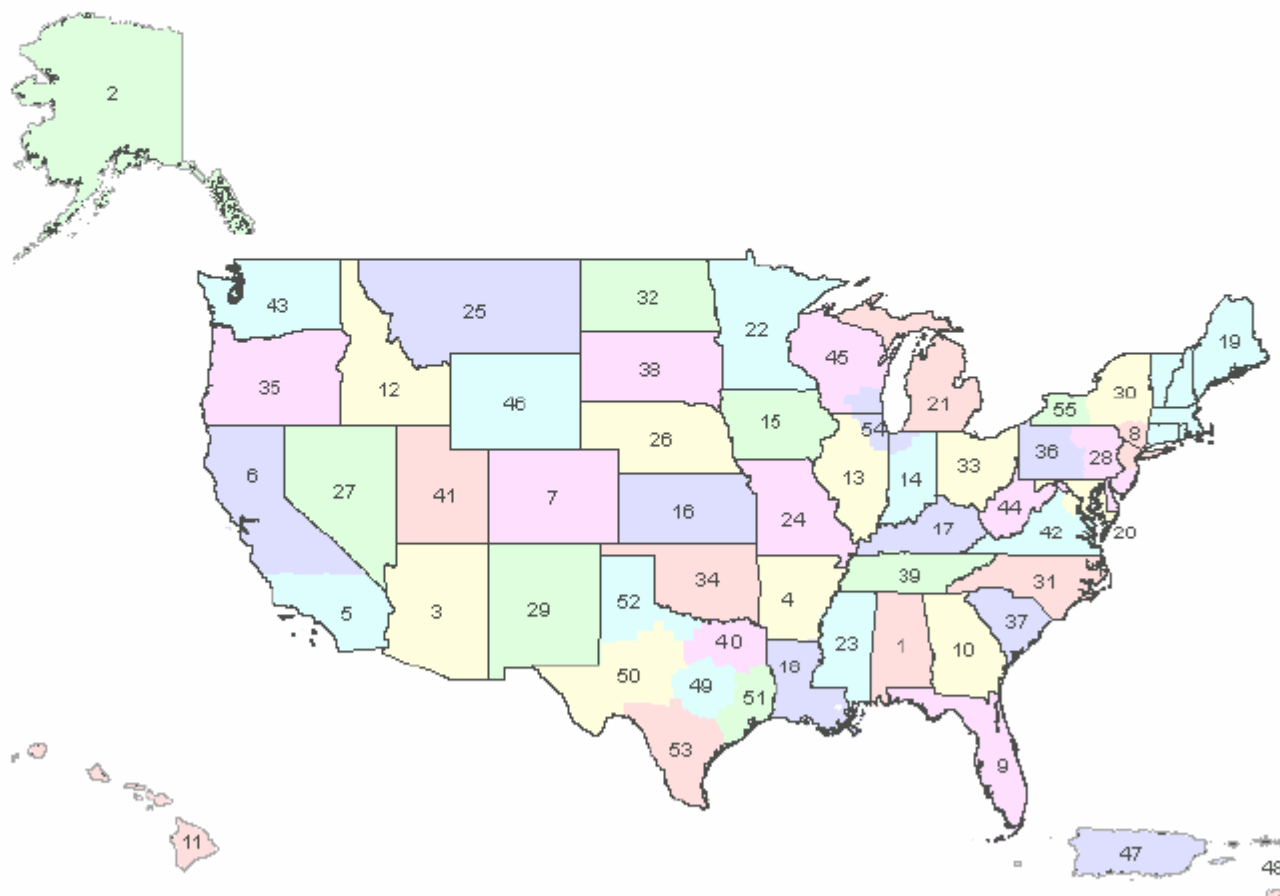
PLANNING   APPLICATIONS

RESOURCE LINKS

↘ AASHTO

↘ APCO

↘ FCC

↘ FCCA

↘ IMSA

↘ NJ CommTech

↘ NLECTC

↘ NPSTC

↘ SAFECOM

SITES OF INTEREST

- Regional Planning
- 700 MHZ Regions

Contact   Help

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REGION 7: Colorado

SELECT AREA: -Entire Region- ▼ | VIEW REGION

PLANNING | APPLICATIONS

NEW REGION

RESOURCES

SELECT DATA

○ Antenna Sites
○ Channel Allotments
○ TV Stations
○ Admin. Info

GO

REGIONAL PLAN

- Status
- Comments
- Spectrum Summary
- Reports
- Plan Documents

Moffat
Routt
Jackson
Larimer
Weld
Logan
Sedgwick
Phillips
Morgan
Broomfield
Denver
Grand
Boulder
Gilpin
Adams
Rio Blanco
Clear Creek
Arapahoe
Washington
Yuma
Garfield
Eagle
Summit
Jefferson
Douglas
Mesa
Pitkin
Lake
Park
Elbert
Kit Carson
Delta
Teller
El Paso
Lincoln
Cheyenne
Gunnison
Chaffee
Fremont
Pueblo
Kiowa
Montrose
Crowley
Ouray
Saguache
Custer
Otero
Bent
Prowers
San Miguel
San Juan
Hinsdale
Mineral
Rio Grande
Alamosa
Huerfano
Las Animas
Baca
Dolores
Montezuma La Plata
Archuleta
Conejos
Costilla

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REGION 7: Colorado

SELECT AREA: -Entire Region- ▾   VIEW REGION

PLANNING   APPLICATIONS

NEW REGION

RESOURCES

SELECT DATA

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GO

REGIONAL PLAN

▤ Status
✎ Comments
◎ Spectrum Summary
▱ Reports
▱ Plan Documents

* New documents have been posted within the last 30 days

FCC Documents

Public Notices

Acrobat File   Word File   DA-02-3497 WT Docket NO. 02-378

Technical Reports

Generation of the National 700-MHz Public Safety Pool Allotments (Narrowband General Use Channel Set)

Acrobat File   Documentation of Methodology and Results
Acrobat File   Appendix B: Population, Area and Capacity Model Data
County Contours   County Contours in graphical format

Other Documents

White Papers

Acrobat File   700 MHz TV Clearing and its Impact on TV Viewership. Motorola, Inc. (11-11-03)

Slides

Acrobat File   CAPRAD Training Slides

4.9 GHz Information

Word File   Information on 4.9 GHz Public Safety Spectrum

Acrobat File   FINAL NPSTC 4.9 Guidelines Template for May 21 2004

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REGION 7: Colorado

SELECT AREA: -Entire Region- ▼   VIEW REGION
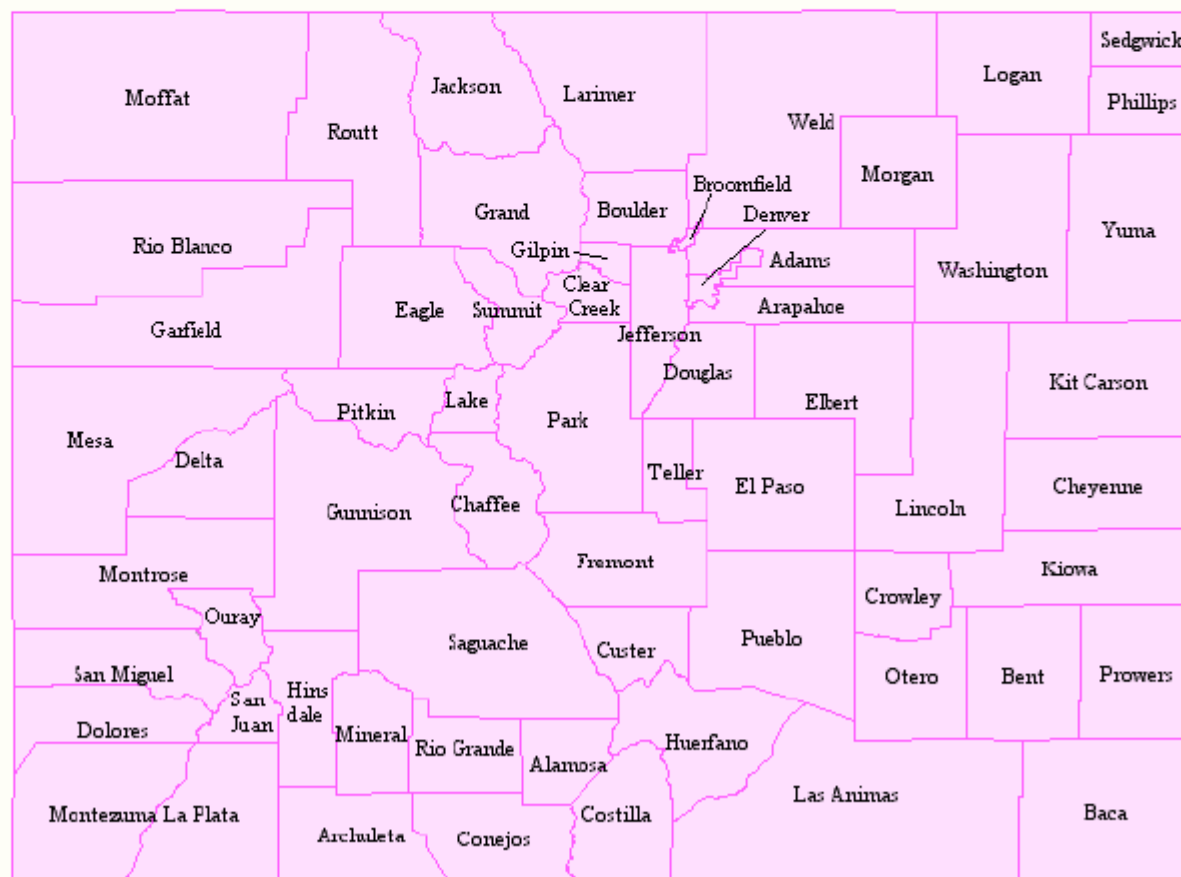
PLANNING   APPLICATIONS

NEW REGION

RESOURCES

MAPPING

SELECT DATA

○ Antenna Sites
○ Channel Allotments
○ TV Stations
○ Admin. Info

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REGIONAL PLAN

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Puerto Rico   Hawaii

Zoom Factor: 2 ▾ ×

◉ Zoom In   ○ Pan
○ Zoom Out   ○ Query
☐ Geo-coordinates
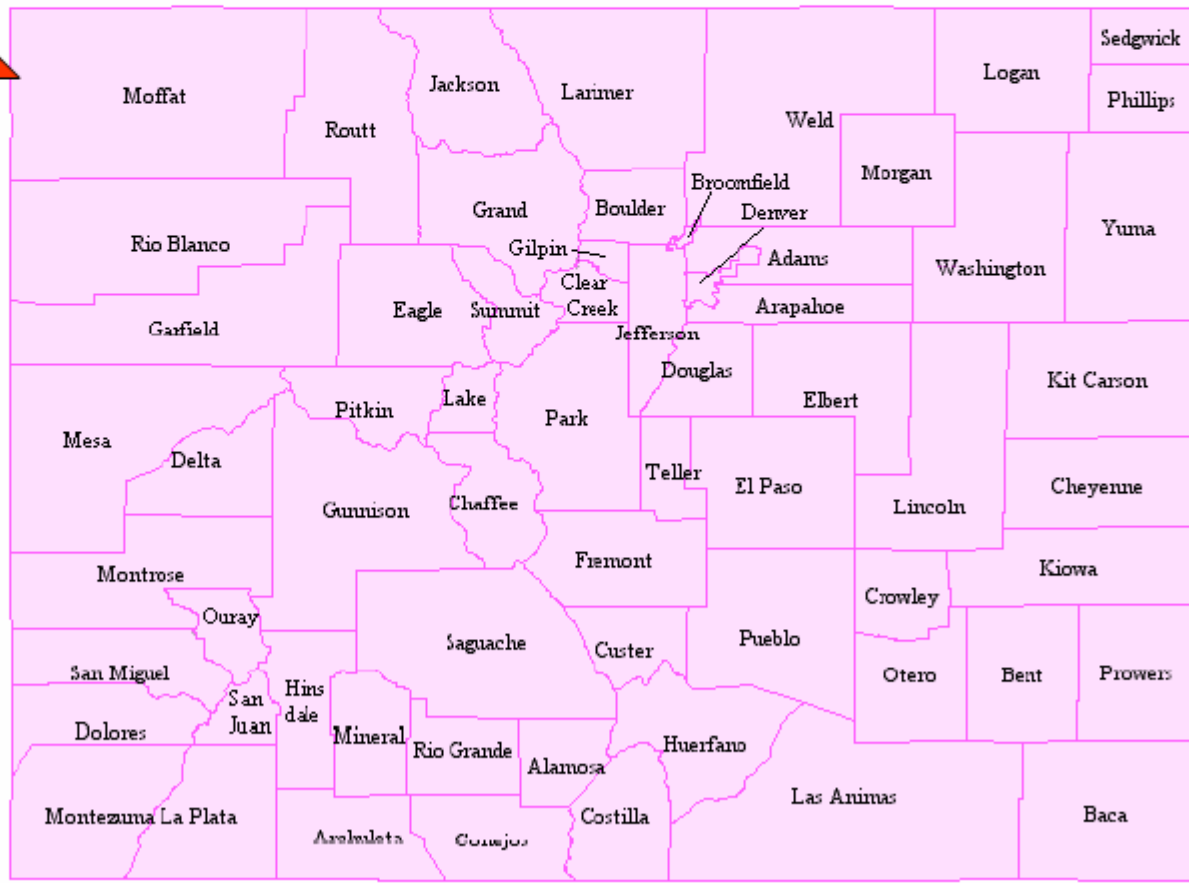
Apply

☐ Antenna Sites   F ?
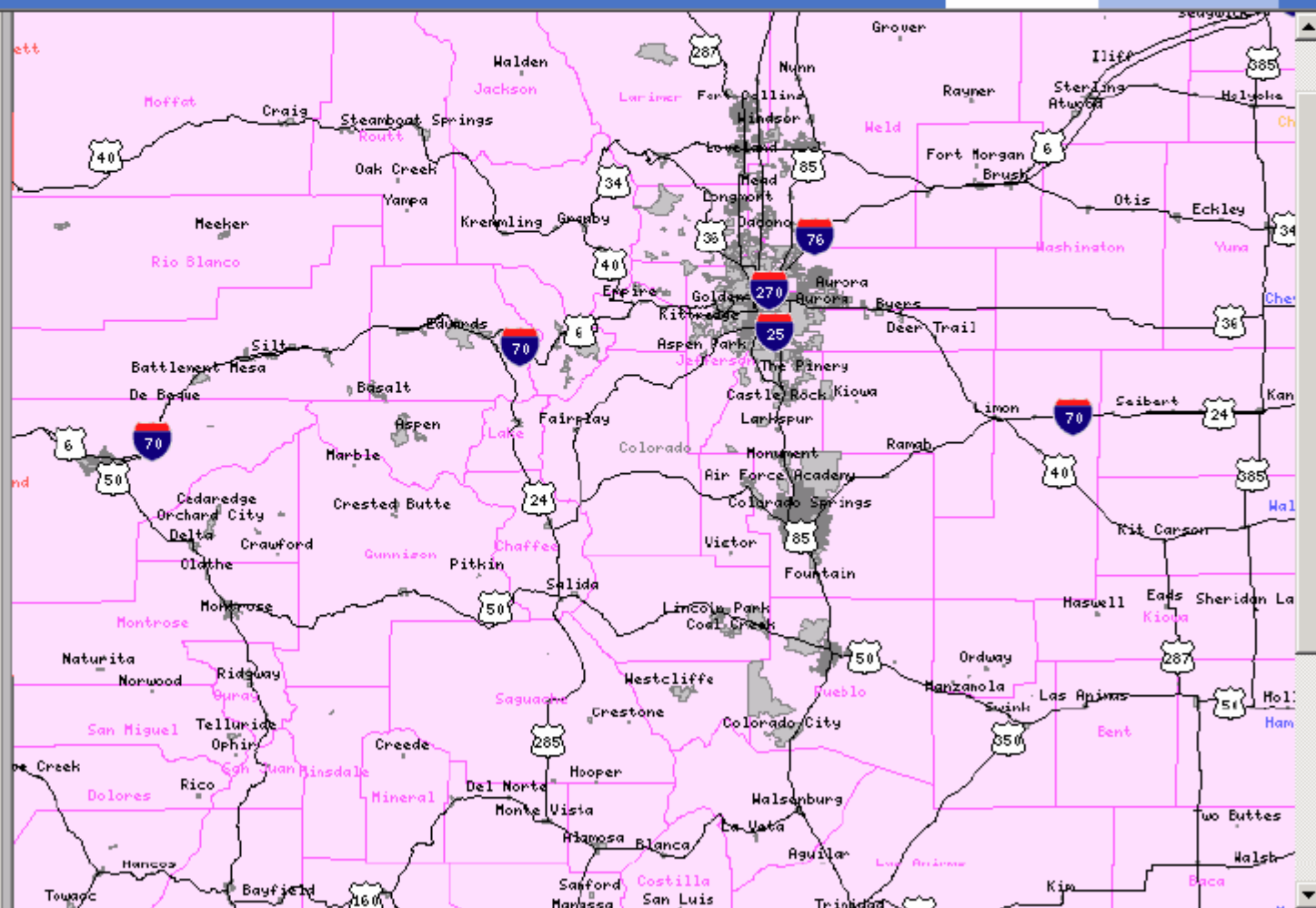☑ Cities & Towns   ?
☑ Roads   ?
☐ Railroads
☐ Water   ?
☐ Federal Lands   ?
☑ Counties   F

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PLANNING | APPLICATIONS

| Continental US | Alaska |
| Puerto Rico | Hawaii |

Zoom Factor: 2 ▾ ×

○ Zoom In   ● Pan
○ Zoom Out   ○ Query
☐ Geo-coordinates

[Apply]

☐ Antenna Sites   F ?
☑ Cities & Towns   ?
☑ Roads   ?
☐ Railroads   ?
☐ Water   ?
☐ Federal Lands   ?

⇐ Back ▾ ≫ | Address | Links ≫

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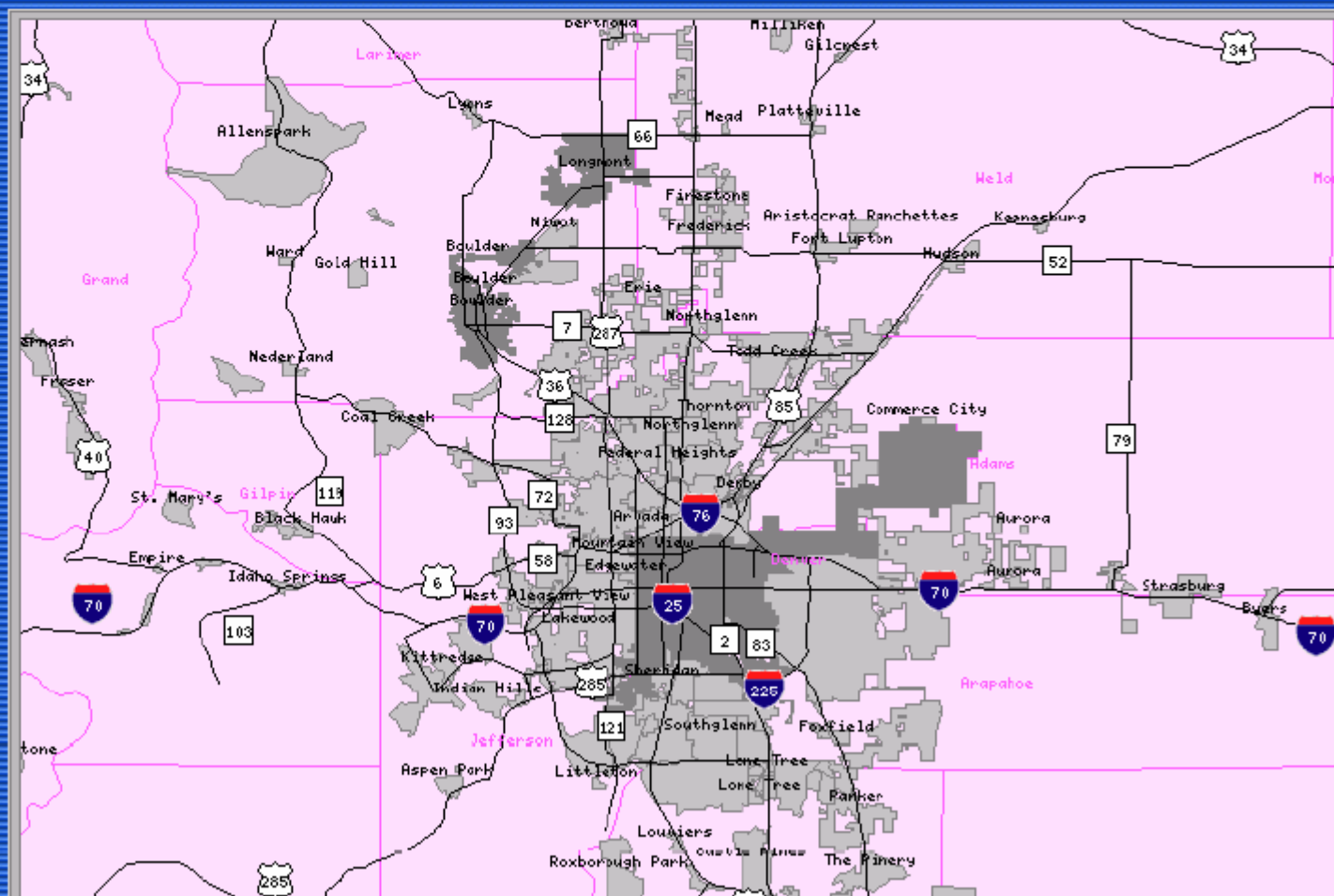
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Filter - Microsoft Internet Explorer

TV Sites (ch 62-69): ☐

+ Contour: ☐

Service: all ▾

Status: all ▾

Channel(s):

Antenna Sites (700.00-807.00 MHz): ☐

+ County: ☐

Bandwidth: all ▾

Class: all ▾

Base Frequency: ___ MHz

Mobile Frequency: ___ MHz
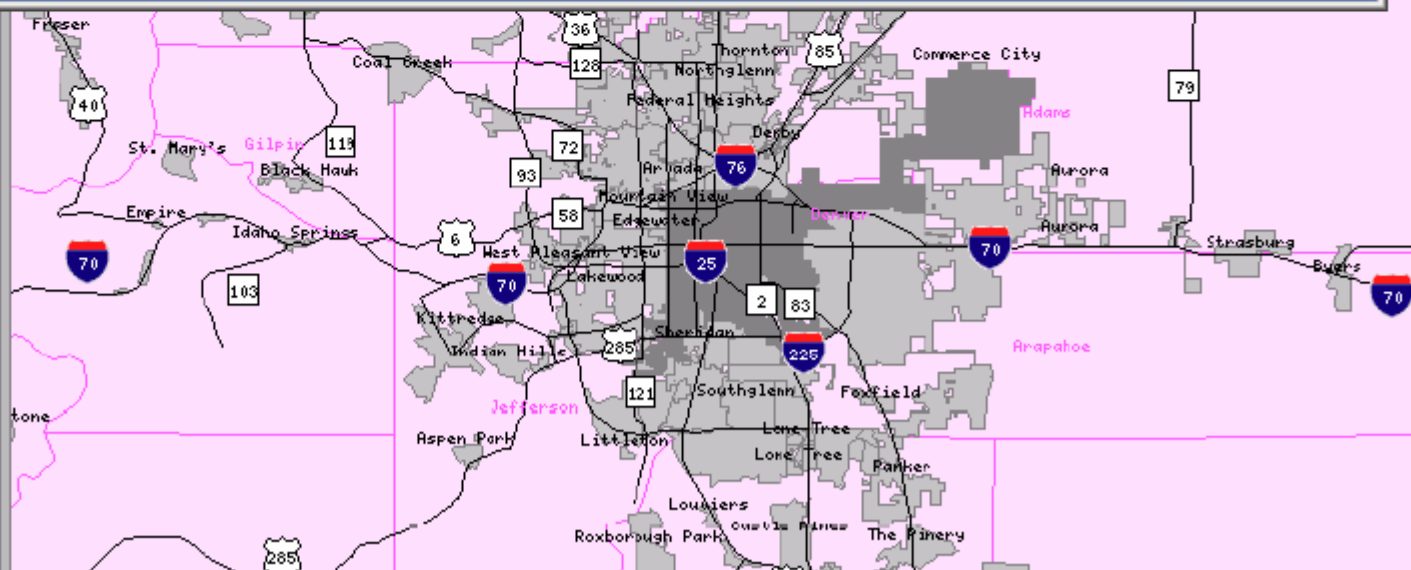
Save

Apply

☐ Antenna Sites   F ?
☑ Cities & Towns   ?
☑ Roads   ?
☐ Railroads   ?
☐ Water   ?
☐ Federal Lands   ?

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SELECT AREA: -Entire Region- ▾ | VIEW REGION

PLANNING | APPLICATIONS

| Continental US | Alaska |
| Puerto Rico | Hawaii |

Zoom Factor: 2 ▾ ×

◯ Zoom In   ◉ Pan
◯ Zoom Out   ◯ Query
☐ Geo-coordinates

Apply

☑ Antenna Sites   F ?
☑ Cities & Towns   ?
☑ Roads   ?
☐ Railroads   ?
☐ Water   ?
☐ Federal Lands   ?
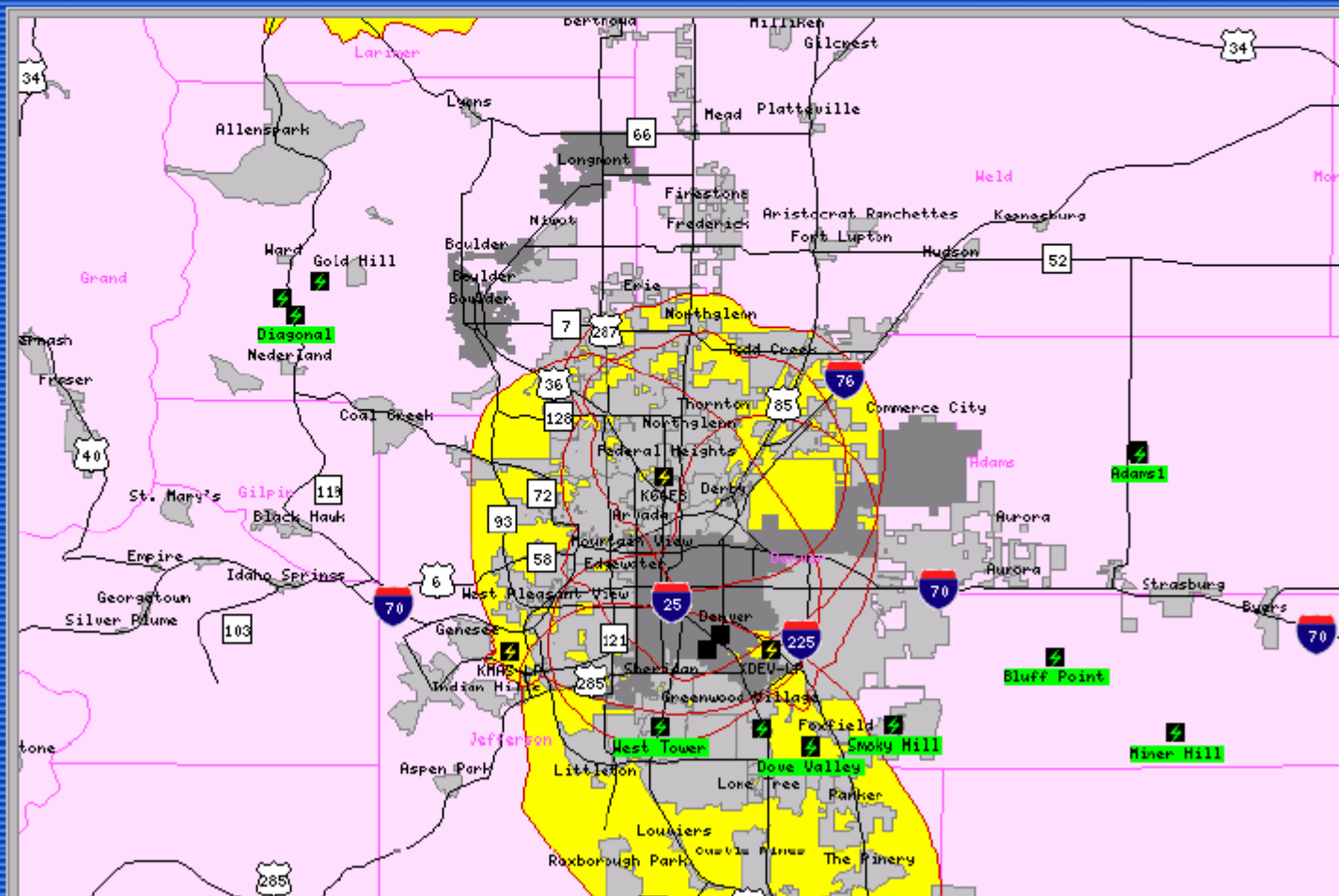
General Query Information

State:	Colorado
County:	Jefferson

Antenna Information

TV (antenna):	KMAS-LP
ARN:	20010522AAE
Licensee:	TELEMUNDO OF STEAMBOAT SPRINGS COLO.
Channel:	63
Service:	LP
Status:	LIC
Longitude:	W 105°13'3"
Latitude:	N 39°40'23"

TV (in range):	KSBS-LP
ARN:	20000426AAI
Service:	LP

☐ Federal Lands

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...CT AREA: -Entire Region- ▾   VIEW REGION

PLANNING | APPLICATIONS

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http://www.teq-services.com:81/nlectcrm/map/temp/query6...

General Query Information

State:	Colorado
County:	Weld
Road:	State Route 52
Road:	State Route 79

Zoom Factor: 2 ×

○ Zoom In   ○ Pan

○ Zoom Out   ◉ Query

☑ Geo-coordinates

Apply

☑ Antenna Sites   F ?

☑ Cities & Towns   ?

☑ Roads   ?

☐ Railroads   ?

☐ Water   ?

☐ Federal Lands   ?

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COORDINATION
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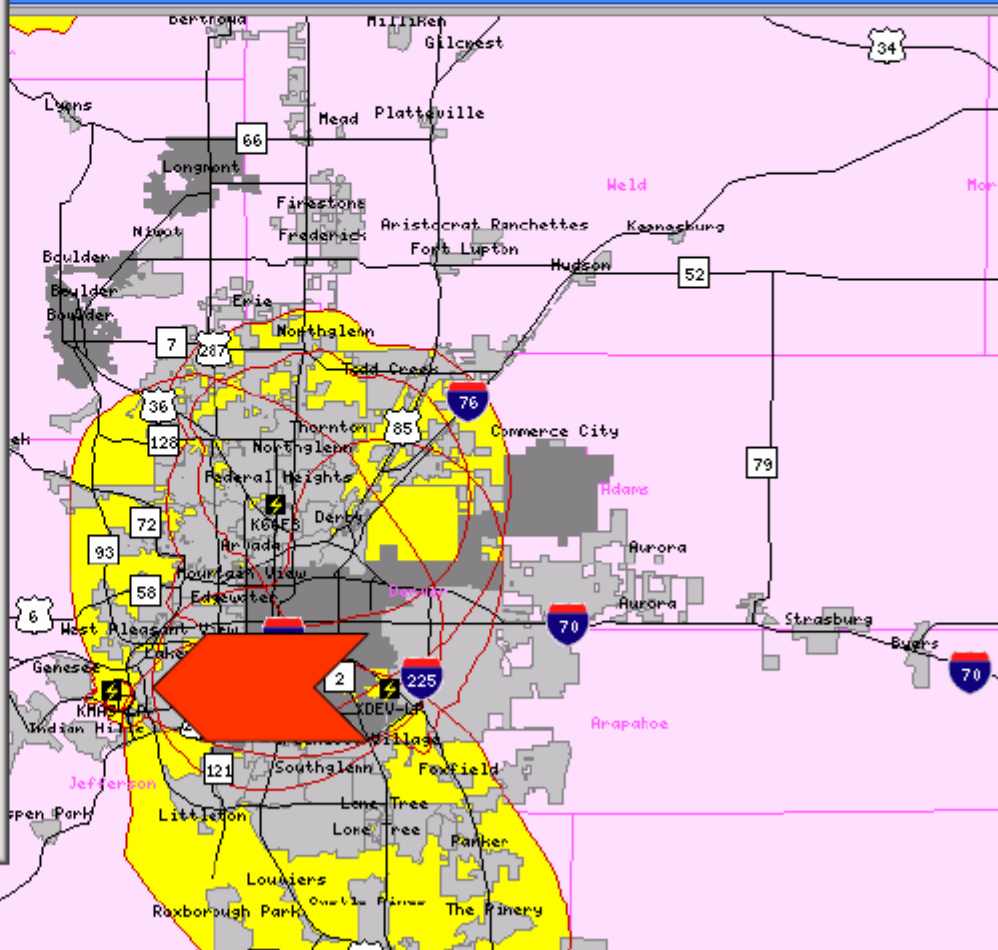Research Institute

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CT AREA: -Entire Region-   **VIEW REGION**   PLANNING   APPLICATIONS

N 40°4'9"
W 104°23'53"

Universal Licensing System

WTB > ULS > Online Systems > License Search

FCC Site Map

License Search

FCC Site Map

HELP

ULS License Search enables you to search for a wide range of licenses in the Universal Licensing System. The License Search here provides access to the most basic attributes of a license. You can also specify more attributes combinations with the Advanced Search or search within services like Amateur using service-specific criteria. Please be aware that some combinations of search criteria may result in a longer wait.

License Search

By Call Sign ▼ = [   ]   SUBMIT   RESET

○ all matches ○ exact matches only

◆ Advanced License Search

Advanced
Want to search for licenses of any radio service code based on combinations of general license attributes?

◆ Advanced License Search

Advanced License Search includes: license State, ZIP, and Name codes (Grant, Last Action, etc)

Service-Specific
Want to search within a service using criteria relevant to that specific service?

◆ Aircraft

◆ Amateur
Verify Call Signs, Operator Class, and more!

◆ Commercial/Restricted Permits
Operator Class, COLEM, and more!

Market-Based
Want to search for licenses in given markets?

◆ Market Based
Search by auction number, frequency range, markets, and more!

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ORDINATION
M

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PLANNING APPLICATIONS

AREA: Arapahoe County ▼ VIEW REGION

7 - Colorado - Arapahoe County
Antenna Sites

Search FCC Database

Admin. Info

GO

REGIONAL PLAN

- 📄 Status
- ✏️ Comments
- ◎ Spectrum Summary
- 📂 Reports
- 📂 Plan Documents

			Longitude NAD83		Antennas	Channels
		County Center	39/39/00.0N	104/23/00.0W		
☐		Bluff Point	39/40/05.0N	104/30/06.0W	Edit ABB, ACC	105-108, 109-112
☐		Centennial	39/35/42.0N	104/53/05.0W	Edit B234579, C236478	185-188
☐		Deer Trail	39/35/43.0N	104/01/05.0W	Edit A1, A2, A3	
☐		Dove Valley	39/34/35.0N	104/49/20.0W	Edit V22, V33, V44, V55, V66	105-108, 145-148, 149-152
☐		Miner Hill	39/35/25.0N	104/20/35.0W	Edit M1, M2	105-108, 225-228
☐		Smoky Hill	39/35/53.0N	104/42/46.0W	Edit H1, H2	185-188
☐		West Tower	39/35/43.0N	105/01/05.0W	Edit S1, S2, S3, S4	149-152
Add:						

Save Save changes

Contact | Help

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00 MHz Public Safety Spectrum

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REGION 7: Colorado

SELECT AREA: -Entire Region- ▼ VIEW REGION

PLANNING | APPLICATIONS

NEW REGION

RESOURCES

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REGIONAL PLAN

📄 Status
✏️ Comments
◎ Spectrum Summary
📂 Reports
📂 Plan Documents

Region 7 - Colorado
Channel Allotment

County	Class	Band Width	FCC Channel Number	Base Frequency	Mobile Frequency	Notation
Adams	General Use	Voice 25KHz	241-244	765.512500	795.512500	
	General Use	Voice 25KHz	297-300	765.862500	795.862500	
	General Use	Voice 25KHz	373-376	766.337500	796.337500	
	General Use	Voice 25KHz	481-484	773.012500	803.012500	
	General Use	Voice 25KHz	533-536	773.337500	803.337500	
	General Use	Voice 25KHz	573-576	773.587500	803.587500	
	General Use	Voice 25KHz	621-624	773.887500	803.887500	
	General Use	Voice 25KHz	705-708	774.412500	804.412500	
	General Use	Voice 25KHz	877-880	775.487500	805.487500	
	Interoperability*	Voice 12.5KHz	7TAC66	765.143750		
	State License	Voice 12.5KHz	29-30	764.181250	794.181250	
	State License	Voice 12.5KHz	31-32	764.193750	794.193750	
	General Use	Data 50KHz	31	768.525000	798.525000	
Alamosa	General Use	Voice 25KHz	17-20	764.112500	794.112500	
	General Use	Voice 25KHz	97-100	764.612500	794.612500	

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00 MHz Public Safety Spectrum

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REGION 7: Colorado

SELECT AREA: -Entire Region- ▾ **VIEW REGION**

PLANNING | APPLICATIONS

NEW REGION

RESOURCES

SELECT DATA

○ Antenna Sites
○ Channel Allotments
○ TV Stations
○ Admin. Info

GO

REGIONAL PLAN

📄 Status
✏️ Comments
◎ Spectrum Summary
📂 Reports
📂 Plan Documents

Region 7 - Colorado
TV Stations

Search FCC Database   TV Code Glossary

County	Channel	Call Sign	Location	Latitude NAD83	Longitude NAD83
Adams County	66	K66FB	Denver	39°51'8"N	105°0'51"W
	66	K66FB	Denver	39°51'8"N	105°0'51"W
	69	KDEO-LP	Aurora	39°45'0"N	104°59'27"W
	69	KMAS-LP	Denver	39°44'57"N	104°59'52"W
Archuleta County	62	K62AP	Pagosa Springs	37°15'40"N	107°2'45"W
	66	K66AV	Sunetha/Nutria	37°11'36"N	107°5'31"W
Conejos County	67	K45GD	Romeo, Etc	36°51'25"N	106°1'12"W
	63	K63AN	Romeo, Etc.	36°51'25"N	106°1'12"W
	65	K65AS	Romeo, Etc.	36°51'25"N	106°1'12"W
Delta County	69	K69AO	Powderhorn	39°5'15"N	108°13'40"W
Denver County	66	DK66DK	Aurora-Denver	39°39'50"N	104°51'40"W
	66	DK66DK	Aurora-Denver	39°39'50"N	104°51'40"W
	62	KDEV-LP	Aurora	39°40'31"N	104°52'22"W
Dolores County	67	K32EY	Dove Creek	37°48'5"N	109°25'30"W

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SELECT REGION: [Select Region ▾]   or Click Map to Select Region

PLANNING

RESOURCE LINKS

⬀ AASHTO

⬀ APCO

⬀ FCC

⬀ FCCA

⬀ IMSA

⬀ NIJ CommTech

⬀ NLECTC

⬀ NPSTC

⬀ SAFECOM

SITES OF INTEREST

9 GHz Spectrum Whitepaper

NPSTC 4.9 GHz National
Regional Plan Guidlines

4.9 Licensing Rules
Summary

NPSTC Comments
to 4.9 GHz

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REGION 7: Colorado   **SELECT AREA:** -Entire Region- ▼ **VIEW REGION**

PLANNING

NEW REGION

RESOURCES

SELECT DATA

○ Entity Groups
○ Entities
◉ Locations
○ Channel Use

GO

REGIONAL PLAN

📋 Status
✎ Comments
◎ Spectrum Summary
📂 Reports
📂 Plan Documents

Map of Colorado counties: Moffat, Routt, Jackson, Larimer, Weld, Logan, Sedgwick, Phillips, Rio Blanco, Grand, Boulder, Broomfield, Denver, Morgan, Yuma, Gilpin, Clear Creek, Adams, Washington, Garfield, Eagle, Summit, Jefferson, Arapahoe, Mesa, Pitkin, Lake, Park, Douglas, Elbert, Kit Carson, Delta, Teller, El Paso, Lincoln, Cheyenne, Gunnison, Chaffee, Fremont, Montrose, Crowley, Kiowa, Ouray, Saguache, Custer, Pueblo, Otero, Bent, Prowers, San Miguel, Hinsdale, Mineral, Rio Grande, Alamosa, Huerfano, Las Animas, Baca, Dolores, San Juan, Montezuma, La Plata, Archuleta, Conejos, Costilla

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REGION 7: Colorado   SELECT AREA: | Denver County ▾ | VIEW REGION

PLANNING

NEW REGION

RESOURCES

SELECT DATA

○ Entity Groups
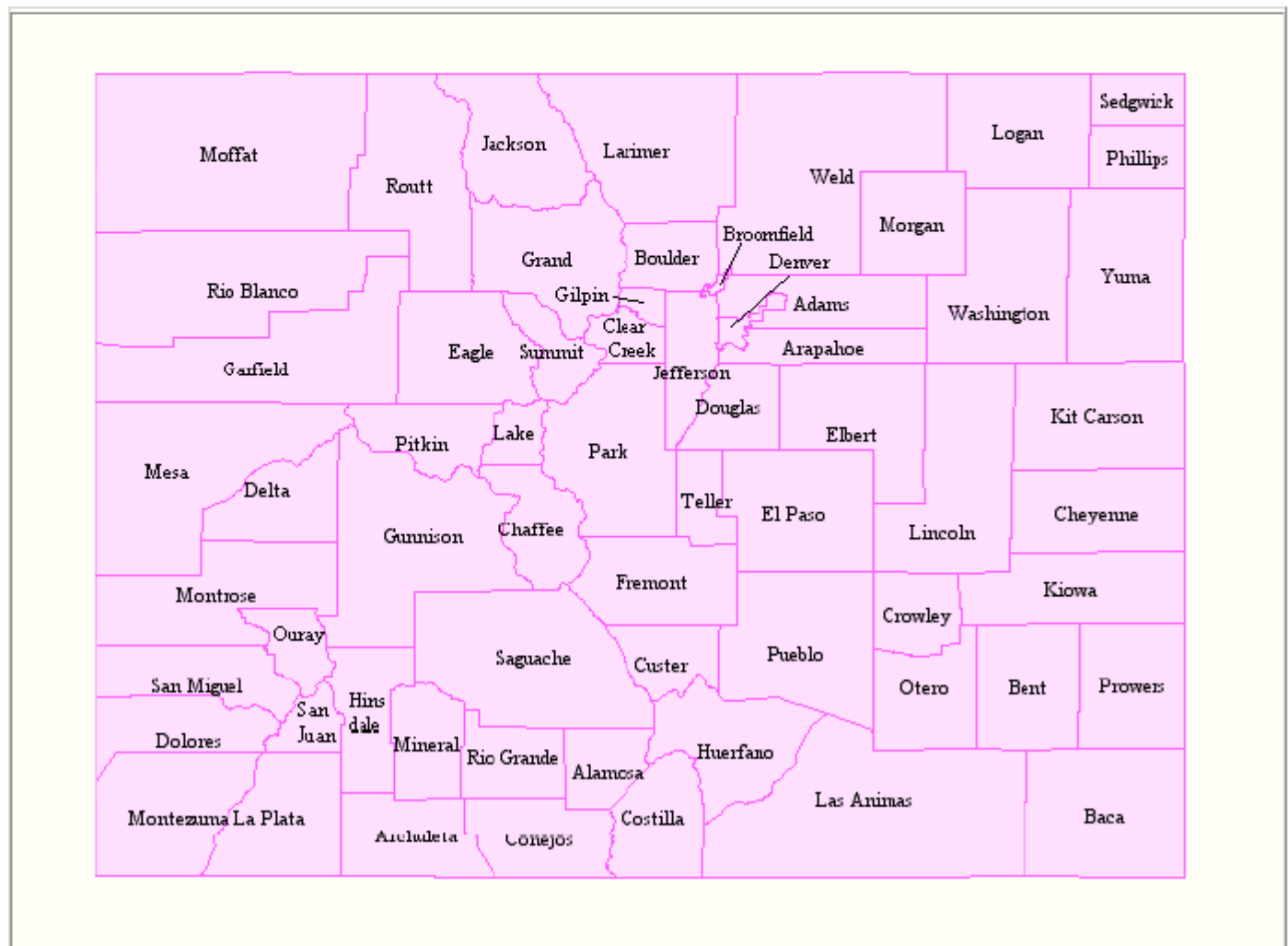● Entities
○ Locations
○ Channel Use

GO

REGIONAL PLAN

📋 Status
✏ Comments
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🗁 Reports
🗁 Plan Documents

Region 7 - Colorado - Denver County
4.9 GHz Entity Detail

Back

Link to FCC

Entity Information   **Contact Information**
Attention: Dana Hansen/Jeff Thomas   **Person (First,Last):**
Name: Denver Police Department, Electronic Engineering Bureau **Organization:**
Street: 1930 35th Street   **Street:**
City: Denver   **City:**
State: CO   **State:**
Telephone: 303-295-4381   **Telephone:**
FAX: 303-295-4386   **FAX:**
Email: Hansend@ci.denver.co.us   **Email:**

Jurisdiction: Other
Participant: Y

Save   Cancel

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Universal Licensing System

FCC > WTB > ULS > Online Systems > License Search

FCC Site Map

4.9 GHz   SIEC   Assets

PLANNING

ULS License

Public Safety 4940-4990 MHz Band License - WPYR555 - Denver Police Department, Electronic Engineering Bureau

? HELP

🔍 New Search   🖨 Printable Page   📑 Reference Copy   ✛ Map License

Link to FCC

MAIN	ADMIN	LOCATIONS	FREQUENCIES	
Call Sign	WPYR555		Radio Service	PA - Public Safety 4940-4990 MHz Band
Status	Active		Auth Type	Regular
Dates				
Grant	10/07/2003		Expiration	10/07/2013
Effective	10/07/2003		Cancellation	
Control Points				
1	1930 35th Street, DENVER, Denver, CO P: (303)295-4381			
Licensee				
Licensee ID SGIN	L00004250 000	FRN	0001621218 (View Ownership)	Type	Governmental Entity
Licensee				
Denver Police Department, Electronic Engineering Bureau		P:(303)295-4381		

mation
Last):

Note state designations not regions

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Colorado

SELECT AREA: -Entire State- ▾   VIEW STATE

PLANNING   APPLICATIONS

NEW STATE

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STATE PLAN

- 📅 Status
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Map of Colorado counties: Moffat, Routt, Jackson, Larimer, Weld, Logan, Sedgwick, Phillips, Rio Blanco, Grand, Boulder, Broomfield, Denver, Morgan, Yuma, Washington, Gilpin, Clear Creek, Adams, Eagle, Summit, Jefferson, Arapahoe, Garfield, Douglas, Elbert, Kit Carson, Pitkin, Lake, Park, Teller, El Paso, Lincoln, Cheyenne, Mesa, Delta, Gunnison, Chaffee, Fremont, Kiowa, Montrose, Crowley, Pueblo, Ouray, Saguache, Custer, Otero, Bent, Prowers, San Miguel, San Juan, Hinsdale, Mineral, Rio Grande, Alamosa, Huerfano, Las Animas, Baca, Dolores, Montezuma, La Plata, Archuleta, Conejos, Costilla

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Colorado   SELECT AREA: -Entire State-   VIEW STATE   PLANNING   APPLICATIONS

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STATE PLAN

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Colorado
Entity List

County	Entity Name	City	Locations
Statewide	City of Aurora	Aurora	
	City of Colorado Springs	Colorado Springs	
	Colorado Department of Transportation	Denver	
	Colorado Springs Utilities, IRD Network Support	Colorado Springs	
	Colorado State Patrol	Denver	
	Colorado, State of	Denver	
	Longmont, City of	Longmont	
	Montrose, County of	Montrose	
	Morgan, County of	Fort Morgan	
	Parker Fire Protection District	Parker	
	Pitkin, County of	Aspen	
	Weld, County of	Greeley	
	Western RETAC	Montrose	
	testing the sequence3		
Adams	Adams County Sheriff	Brighton	
	Adcom911	Commerce City	
	Brighton Fire Dept	Brighton	
Alamosa	Alamosa City Police	Alamosa	
	Alamosa Sheriff's Dept		
Arapahoe	Arapahoe County Maintenance	Centennial	
	Arapahoe County Sheriff	Littleton	
	Aurora Fire Dept	Aurora	

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Colorado
SIEC Channel Allotments

County	Band	Channel	Frequency RX	Tone RX	Frequency TX	Tone TX	Band width	Discipline	Notation
Arapahoe	VHF High Band	1TAC5 MY-TAC			151.137500	136.5	25KHz	Law	Use somewhere
	VHF High Band	1EMS6 MY-EMS			152.007500	136.5	25KHz	EMS	Use everywhere
	VHF High Band	1CAL18 MY-FREQ			155.752500		25KHz	All	
	700 MHz Interop Voice	7CAL59			764.243750		12.5KHz	All	
	700 MHz General Use Voice	51-52			764.318750		12.5KHz	Other	
	700 MHz Interop*	223-224	795.393750		765.393750		12.5KHz		
	700 MHz Interop*	239-240	795.493750		765.493750		12.5KHz		
	800 MHz NPSPAC Band	8CAL90			821.012500		25KHz	All	
Denver	UHF Low (414-419)	4FLAW46D			409.987500		25KHz	Other	
	UHF Low (450-470)	4CAL27D			453.212500		25KHz	Other	
	700 MHz Interop*	143-144	794.893750		764.893750		12.5KHz		
	800 MHz NPSPAC Band	8CAL90			821.012500		25KHz	Other	
Douglas	700 MHz Interop*	23-24	794.143750		764.143750		12.5KHz		
	700 MHz Interop*	119-120	794.743750		764.743750		12.5KHz		

* indicates channels allocated by RPC

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Missouri

SELECT AREA: -Entire State- | VIEW STATE | PLANNING | APPLICATIONS

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SELECT DATA

○ Entity Groups
○ Entities
○ Sites
⦿ Channel Use
○ Admin. Info

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STATE PLAN

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Federal Communications Commission
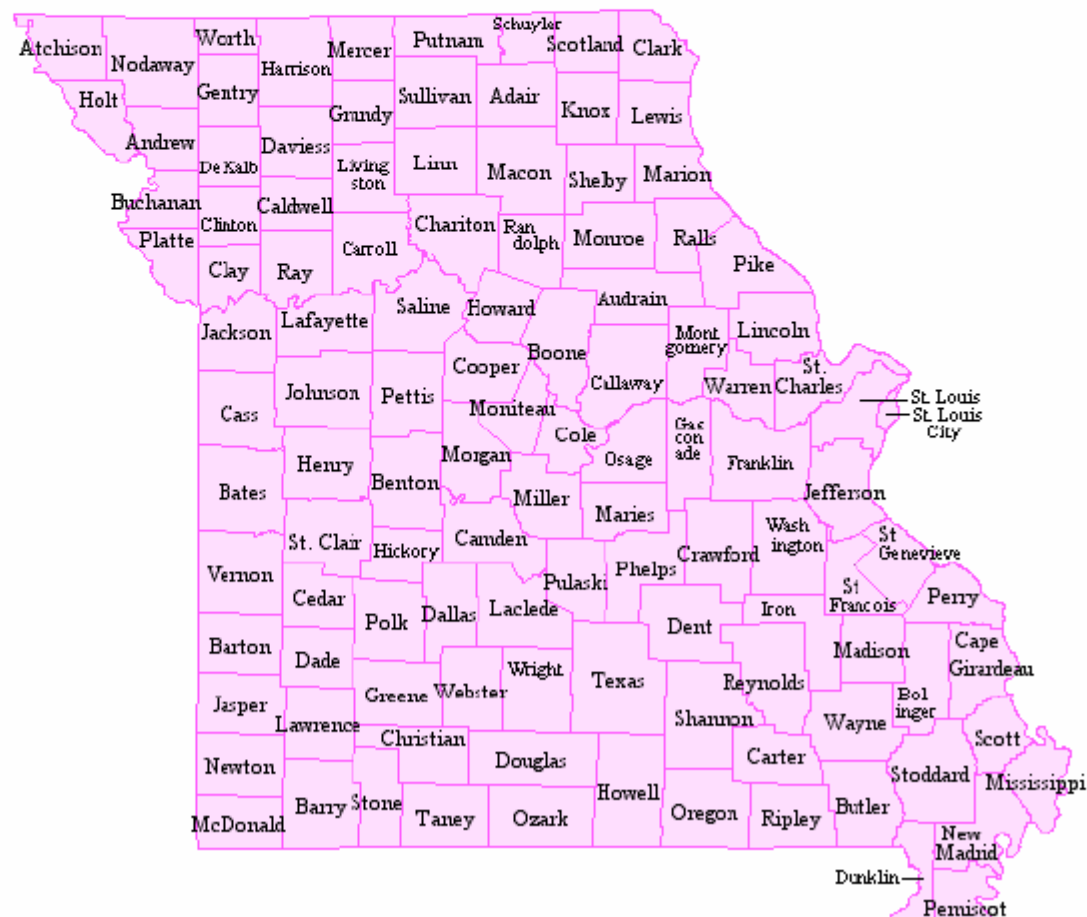
niversal Licensing System

CC > WTB > ULS > Online Systems > License Search   FCC Site Map

ULS License

Public Safety 4940-4990 MHz Band License - WPYK916 - State of Missouri

🔍 New Search   📄 Printable Page   📑 Reference Copy   ✛ Map License   ❓ HELP

| MAIN | ADMIN | LOCATIONS | FREQUENCIES |

Call Sign	WPYK916	Radio Service	PA - Public Safety 4940-4990 MHz Band
Status	Active	Auth Type	Regular
Dates			
Grant	08/29/2003	Expiration	08/29/2013
Effective	05/19/2004	Cancellation	
Control Points			
1	1510 East Elm, COLE, Jefferson City, MO P: (573)751-3747		

Licensee				
Licensee ID SGIN	L00002485 000	FRN	0002528958 (View Ownership)	Type	Governmental Entity

Licensee

State of Missouri
1510 East Elm
Jefferson City, MO 65101

P:(573)751-3747
F:(573)526-1112
E:devins@mshp.state.mo.us

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Colorado

SELECT AREA: Arapahoe County ▾   VIEW STATE

PLANNING | APPLICATIONS

NEW STATE

SELECT ACTION

○ Search Channels
○ Find Application Filter
● New Application

GO

SELECTED APPLICATION

FCC 601 ▾

GO

Full Print View 🖶

⇄ Coordination
◯◯ Co-ownership
Attachments
✓ Validate
Status

| 601-1 | 601-2 | 601-3 | 601-4 | A | D | H-1 | H-2 | H-3 |

☒ Cancel   💾 Save   🖨 Print

FCC 601
Main Form

FCC Application for Wireless Telecommunications Bureau
Radio Service Authorization

Approved by OMB
3060-0798
See instructions for
Public burden estimate

1) Radio Service Code:
PW–Public Safety Pool, Conventional ▾

1a) Existing Radio Service Code:

Application Purpose (Select only one): NE–New ▾

2)	NE - New	RO - Renewal Only	CO - Consolidate Call Signs	NT - Required Notifications
	MD - Modification	RM - Renewal/Modification	WD - Withdrawal of Application	EX - Requests for Extension of Time
	AM - Amendment	CA - Cancellation of License	DU - Duplicate License	AU - Administrative Update

3a) If this request is for a <u>D</u>evelopmental License, <u>D</u>emonstration License, or an <u>S</u>TA (Special Temporary Authorization), enter the code and attach the required exhibit as described in the instructions. Otherwise enter <u>N</u> (Not Applicable)

N–Not Applicable ▾

3b) If this request is for Special Temporary Authority due to an emergency situation enter 'Y', otherwise enter 'N'
Refer to Rule 1.915 for an explanation of situations considered to be an emergency.

No ▾

4) If this request is an Ammendment or Withdrawal, enter the file number of the pending application currently on file with the FCC.

File Number

5) If this request is for a Modification, Renewal Only, Renewal/Modification, Cancellation of License, Consolidate Call Signs, Duplicate License, or Administrative Update, enter the call sign of the existing FCC license.

Call Sign

6) If this request is for a New, Amendment, Renewal Only or Renewal/Modification, enter the requested authorization expiration date (this item is optional).

MM/DD

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NEW STATE

SELECT DATA

Find Entity

Add Entity

GO

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- Sites
- Mobile Assets
- Attachments
- Reports

AK

WA | MT | ND | MN | ME
OR | ID | WY | SD | WI | MI | NY | VT | NH | MA
NV | | | IA | | | CT | RI
CA | UT | CO | NE | IL | IN | OH | PA | NJ
| | KS | MO | KY | WV | VA | DE | MD
AZ | NM | OK | AR | TN | NC
| | TX | MS | AL | GA | SC
LA | | FL

HI

PR

VI

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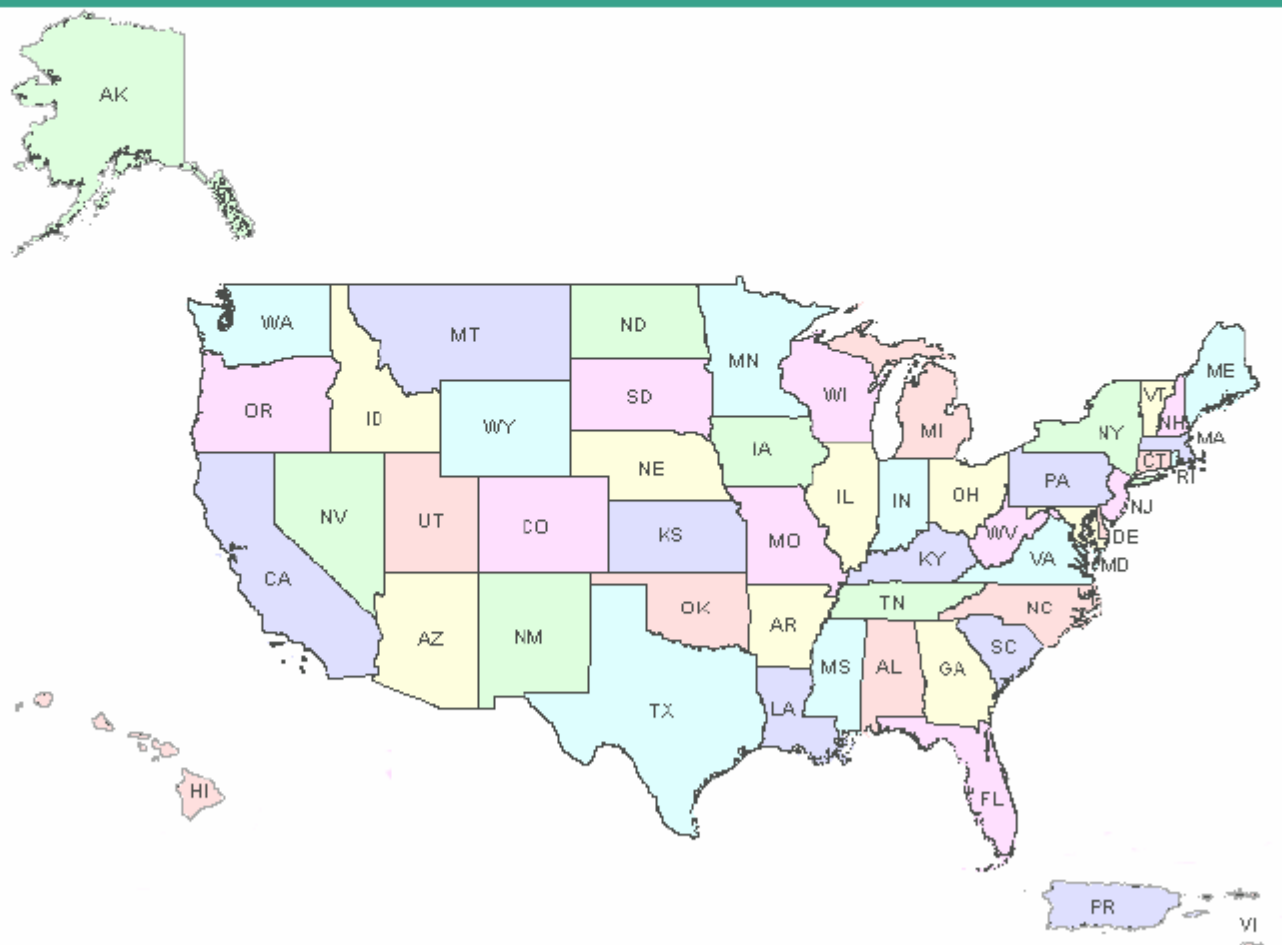
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Colorado

Entire State ▾ | VIEW STATE

NEW STATE

Entity List

SELECT DATA

Find Entity

Add Entity

GO

- Entity Information
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- Sites
- Mobile Assets
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- Reports

County	Entity Name	City
*Statewide	Colorado Department of Transportation	Denver
	Colorado State Patrol	Denver
	Paul's Entity	Denver
Adams	Adams County Sheriff	Brighton
	Adcom911	Commerce City
	Brighton Fire Dept	Brighton
Alamosa	Alamosa City Police	Alamosa
	Alamosa Sheriff's Dept	
Arapahoe	Arapahoe County Maintenance	Centennial
	Arapahoe County Sheriff	Littleton
	Aurora Fire Dept	Aurora
	Brand New Entity	Acres Green
	Cherry Hills Police Dept	Cherry Hills
	Englewood Police Dept	Englewood
	Littleton Fire Dept	Littleton
	South Metro Fire Department	Centennial
Baca	Baca Sheriff's Dept	
Boulder	Boulder County Animal Control	Boulder
	Boulder Police Dept	Boulder
	Colorado University Police	Boulder
	Nederland Sheriff's Office	Nederland
Denver	Denver Police Department, Electronic Engineering Bureau	Denver
	Denver Police Dept	Denver

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Colorado

Entire State ▾ | VIEW STATE

NEW STATE

SELECT DATA

Find Entity
Add Entity

GO

- Entity Information
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- Sites
- Mobile Assets
- Attachments
- Reports

Colorado Entity Detail

Entity Information		**Contact Information**	
Attention:		**Person (First, Last):**	
Name:		**Organization:**	
Street:		**Street:**	
City:		**City:**	
State:	Colorado ▾	**State:**	Colorado ▾
Zip:		**Zip:**	
County:	*Statewide ▾	**Telephone:**	
Telephone:		**FAX:**	
FAX:		**Email:**	
Email:			

Jurisdiction:	Federal ▾
Type:	Other ▾
4.9 Participant:	No ▾
SIEC Participant:	No ▾

Add

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Communications   Assets   Management

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Colorado   Entire State ▾   VIEW STATE

NEW STATE

SELECT DATA

Find Entity

Add Entity

GO

- 👤 Entity Information
- ⬜ Centers
- ➡️ Sites
- ⬌ Mobile Assets
- 📖 Attachments
- 📂 Reports

Colorado Entity Detail

Entity Information		Contact Information	
Attention:	Jake	**Person (First, Last):** Sam	Iverson
Name:	Arapahoe County Sheri	**Organization:**	SAMS Club
Street:	On E. Prince St.	**Street:**	825 Main St.
City:	Littleton	**City:**	Denver
State:	Colorado ▾	**State:**	Colorado ▾
Zip:		**Zip:**	
County:	Arapahoe ▾	**Telephone:**	(303) 555-1234
Telephone:	303 555-1212	**FAX:**	(303) 555-2345
FAX:	303 555-0000	**Email:**	sams@abc.com
Email:	jake@cybermail.com		

Jurisdiction: County ▾

Type: Law Enforcement ▾

4.9 Participant: Yes ▾

SIEC Participant: Yes ▾

Update

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Colorado

Entire State ▾   VIEW STATE

NEW STATE

Center Information   Contacts   FCC Callsigns   Entities using this center   Assets   Attachments

Arapahoe County Sheriff

SELECT DATA

Find Entity
Add Entity

GO

- Entity Information
- Centers
- Sites
- Mobile Assets
- Attachments
- Reports

Center Information

Center Name County Main

Address Pierce St.

City Littleton

State Colorado ▾

Zip

County Arapahoe ▾

Phone

911 PSAP ☐

Law Endforcement ☐

Fire ☐

EMS ☐

Other ☐

Center is 24 hours ☐

Notes

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Colorado

Entire State ▼ **VIEW STATE**

NEW STATE

Center Information | Contacts | FCC Callsigns | Entities using this center | Assets | Attachments

Arapahoe County Sheriff
County Main Assets

SELECT DATA

Find Entity
Add Entity

GO

| Entity Information
| Centers
| Sites
| Mobile Assets
| Attachments
| Reports

Category [Radio ▼]

Type [Mobile ▼]

Count 1

Manufacturer [   ]

Make [   ]

Model [   ]

Version [   ]

Acquisition Date
(Year or date yyy-mm-dd) [   ]

Last Upgraded Date
(yyy-mm-dd) [   ]

Estimated Useful Life
(In years) [0   ]

Age of Asset 1

Remaining Estimated
Useful Life 0

[Update]

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Home | 700 Mhz | 4.9 GHz | SIEC | **Assets**

Colorado

Entire State ▼ | VIEW STATE

NEW STATE | Center Information | Contacts | FCC Callsigns | Entities using this center | Assets | Attachments

Arapahoe County Sheriff
County Main Attachments

SELECT DATA

Find Entity

Add Entity

GO

Delete	File Name	Description	Date Loaded	Loaded By

Update

- Entity Information
- Centers
- Sites
- Mobile Assets
- Attachments
- Reports

Upload Attachment

File to upload: [_____] Browse...

Description: [_____]

Upload

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Communications   Assets   Management

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Colorado

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NEW STATE

Site Information   Contacts   Entities using this site   Assets   Attachments

SELECT DATA

Find Entity

Add Entity

GO

Delete			Date Loaded	Loaded By
☐	01-qa-080		2004-08-27	

👤 Entity Information

🔲 Centers

➡️ Sites

↔️ Mobile Assets

📖 Attachments

📂 Reports

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Some files can harm your computer. If the file information below
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save this file.

File name: 01-qa-0808-property.zip

File type: WinZip File

From: www.teq-services.com

Would you like to open the file or save it to your computer?

[Open]   [Save]   [Cancel]   [More Info]

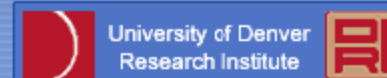☑ Always ask before opening this type of file

Browse...

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- ⌐ AASHTO
- ⌐ APCO
- ⌐ FCC
- ⌐ FCCA
- ⌐ IMSA
- ⌐ NIJ CommTech
- ⌐ NLECTC
- ⌐ NPSTC
- ⌐ SAFECOM

PUBLIC INFORMATION

- Notices
- Documents
- Spectrum
- Regional Plans

700 MHz Frequency Database System

The FCC has allocated 24 MHz of spectrum for public safety services at 764-776 MHz and 794-806 MHz (referred to as the 700 MHz band). On August 6, 1998, the FCC adopted a First Report and Order and Third Notice of Proposed Rule Making that established a band plan and service rules for this spectrum. That plan was later modified three times with the current Fourth Memorandum Opinion and Order serving as the basis for current spectrum use and rules. The following table breaks out how the spectrum is planned on being allocated.

4.9 GHz Frequency Database System

The telecommunications industry is on the verge of an exciting development in regards to providing classic digital services in the mobile environment. The changes will provide a list of services, applications, and features that will greatly impact the manner in which public safety is able to provide services. The potential of convergence of classic digital services will provide an opportunity previously unprecedented for public safety.

SIEC Database System

Interoperability is an essential communication link with public safety and public service communications systems, which permits units from two or more different entities to interact with one another. It also allows the exchange of information according to a prescribed method to achieve predictable results.

Each state is charged with creating a State Interoperability Executive Committe to address issues related to these issues. This CAPRAD tool provides automated features to assist in management, assignment and application for interoperability channels.

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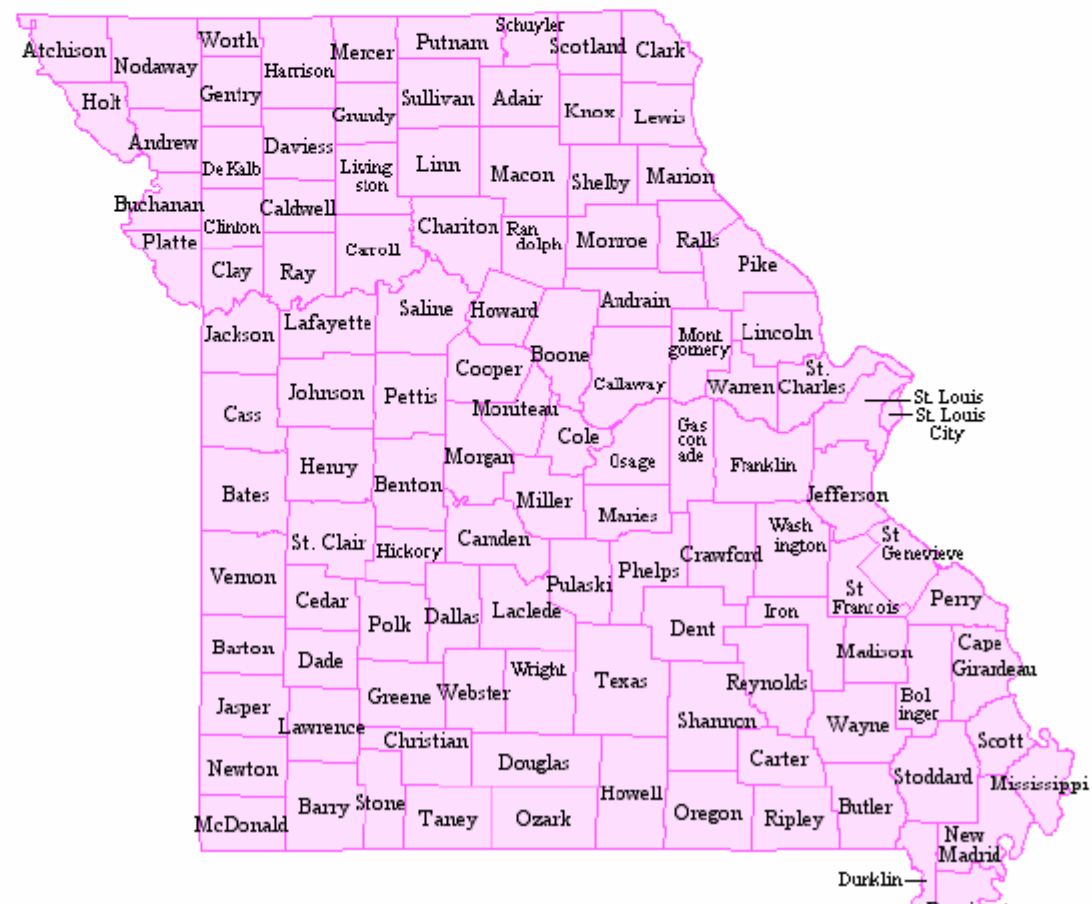
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